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### Search History

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<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>			
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<u>L16</u>	L15 and l14	8	<u>L16</u>
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<u>L14</u>	l12 with l11	91	<u>L14</u>
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<u>L8</u>	l5 and L7	0	<u>L8</u>
<u>L7</u>	5834256.pn.	2	<u>L7</u>
<u>L6</u>	L5 and l4	0	<u>L6</u>
<u>L5</u>	fibronectin	12827	<u>L5</u>
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L16: Entry 4 of 8

File: USPT

Aug 13, 1996

US-PAT-NO: 5545620

DOCUMENT-IDENTIFIER: US 5545620 A

**\*\* See image for Certificate of Correction \*\***TITLE: Synthetic fibronectin fragments as inhibitors of retroviral infection

DATE-ISSUED: August 13, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wahl; Sharon M.	Gaithersburg	MD		
McCarthy; James B.	Minneapolis	MN		
Furcht; Leo T.	Minneapolis	MN		

US-CL-CURRENT: 514/12; 435/236, 514/13, 514/14, 514/15, 514/16, 514/21, 514/8,  
530/324, 530/325, 530/326, 530/327, 530/328, 530/345, 530/367, 530/404, 530/405,  
530/408, 530/409

## CLAIMS:

What is claimed is:

1. A method for inhibiting HIV-1 virus infection of mammalian cells comprising contacting the cells with an effective inhibiting amount of a fibronectin fragment or carrier molecule conjugates thereof, where the fibronectin fragment amino acid sequence is selected from the group consisting of:

YEKPGSPPRE WPRPRPGV (FN1; SEQ ID NO:1), KNNQKSEPLI GRKKT (FN2; SEQ ID NO:2), YRVRVTPKEK TGPMKE (FN3; SEQ ID NO:3), SPRRARVT (FN4; SEQ ID NO:4), and WQPPRARI (FN5; SEQ ID NO:5). D[P]ELPQLVTLP HPNLHGPEIL DVPST (FN6; SEQ ID NO:6), and ITVYAVTGRG DSPASSKPISI (FN7; SEQ ID NO:7).

2. The method of claim 1 wherein zidovudine (AZT), dideoxyinosine, dideoxycytosine, or dideoxycytosine is used in combination with the fibronectin fragment or carrier molecule conjugate thereof.

3. A method according to claim 1 wherein the carrier molecule is ovalbumin.

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## Patent Assignment Abstract of Title

### Total Assignments: 2

**Application #:** 08536891 **Filing Dt:** 09/29/1995 **Patent #:** 6033907 **Issue Dt:** 03/07/2000

**PCT #:** NONE

**Publication #:** NONE

**Pub Dt:**

**Inventor:** DAVID A. WILLIAMS

**Title:** ENHANCED VIRUS-MEDIATED DNA TRANSFER

### Assignment: 1

**Reel/Frame:** 008861/0293 **Received:** 01/08/1998 **Recorded:** 12/22/1997 **Mailed:** 02/13/1998 **Pages:** 22

**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

**Assignor:** INDIANA UNIVERSITY FOUNDATION

**Exec Dt:** 06/30/1997

**Assignee:** ADVANCED RESEARCH & TECHNOLOGY INSTITUTE

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### Assignment: 2

**Reel/Frame:** 009053/0782 **Received:** 04/06/1998 **Recorded:** 03/24/1998 **Mailed:** 05/22/1998 **Pages:** 2

**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

**Assignor:** WILLIAMS, DAVID A.

**Exec Dt:** 01/22/1998

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## Patent Assignment Abstract of Title

### Total Assignments: 5

**Application #:** 08218355 **Filing Dt:** 03/25/1994 **Patent #:** 5686278 **Issue Dt:** 11/11/1997

**PCT #:** NONE

**Publication #:** NONE

**Pub Dt:**

**Inventors:** DAVID A. WILLIAMS, VIKRAM P. PATEL

**Title:** METHODS FOR ENHANCED RETROVIRUS-MEDIATED GENE TRANSFER

### Assignment: 1

**Reel/Frame:** 007020/0070 **Received:** **Recorded:** 06/09/1994 **Mailed:** 07/21/1994 **Pages:** 2

**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

**Assignors:** WILLIAMS, DAVID A.

**Exec Dt:** 04/04/1994

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**Exec Dt:** 04/06/1994

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### Assignment: 2

**Reel/Frame:** 007984/0569 **Received:** 06/18/1996

**Recorded:** 04/26/1996

**Mailed:** 09/13/1996

**Pages:** 3

**Conveyance:** CONFIRMATORY LICENSE (SEE DOCUMENT FOR DETAILS).

**Assignor:** INDIANA UNIVERSITY

**Exec Dt:** 06/02/1995

**Assignee:** NATIONAL INSTITUTES OF HEALTH, THE

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### Assignment: 3

**Reel/Frame:** 007763/0245 **Received:** 01/25/1996

**Recorded:** 01/04/1996

**Mailed:** 04/18/1996

**Pages:** 2

**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

**Assignor:** KOON, WALTER L., JR.

**Exec Dt:** 08/09/1995

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**Assignment: 4**

**Reel/Frame:** 008136/0174 **Received:** 09/16/1996 **Recorded:** 09/16/1996 **Mailed:** 11/27/1996 **Pages:** 3

**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

**Assignor:** PATEL, VIKRAM P.

**Exec Dt:** 05/28/1996

**Assignee:** NORTHWESTERN UNIVERSITY

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**Assignment: 5**

**Reel/Frame:** 008861/0293 **Received:** 01/08/1998 **Recorded:** 12/22/1997 **Mailed:** 02/13/1998 **Pages:** 22

**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

**Assignor:** INDIANA UNIVERSITY FOUNDATION

**Exec Dt:** 06/30/1997

**Assignee:** ADVANCED RESEARCH & TECHNOLOGY INSTITUTE

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